IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 3, and 12 and CANCEL claim 2 in accordance with the following:

1. (Currently Amended) A conversion check apparatus which checks an analytic model generated by converting a three-dimensional model for use in an analyzing process, comprising:

a calculation unit obtaining a difference between the analytic model and the three-dimensional model; and

a conversion check display unit displaying the difference[[.]] <u>wherein</u>

<u>said calculation unit comprises at least one of a volume calculation facility unit for obtaining a difference in volume between the analytic model and the three-dimensional model, a surface area calculation facility unit for obtaining a difference in surface area between the analytic model and the three-dimensional model, and a barycenter calculation facility unit for obtaining a difference in barycenter position between the analytic model and the three-dimensional model.</u>

2. (Cancelled)

3. (Currently Amended) A conversion checking method for checking an analytic model generated by converting a three-dimensional model for use in an analyzing process, comprising:

obtaining a difference between the analytic model and the three-dimensional model~~and~~ <u>by:</u>

<u>obtaining a difference in volume between the analytic model and the three-dimensional model;</u>

<u>obtaining a difference in surface area between the analytic model and the three-dimensional model; and</u>

<u>obtaining a difference in barycenter position between the analytic model and the three-dimensional model;</u>

<u>and</u>

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displaying the difference.

4. (Original) The method according to claim 3, wherein
said difference is numerically displayed.

5. (Original) The method according to claim 3, wherein
said difference is visually displayed.

6. (Original) The method according to claim 3, wherein
said difference includes at least one of a difference in volume, a difference in surface area, and a difference in barycenter position.

7. (Original) The method according to claim 3, wherein
said three-dimensional model and said analytic model are displayed as overlapping each other.

8. (Original) The method according to claim 7, wherein
a portion not completely overlapping between the three-dimensional model and the analytic model is clearly displayed.

9. (Original) The method according to claim 3, wherein
said three-dimensional model and said analytic model are displayed together.

10. (Original) The method according to claim 3, wherein
said analytic model is generated by dividing the three-dimensional model by assigning a grid pattern to the three-dimensional model, and determining validity on each rectangle element.

11. (Original) The method according to claim 10, wherein
it is determined that the rectangle element is valid when the volume of the three-dimensional model in the grid pattern indicates a rate of a specific value or higher relative to the volume of the rectangular area, and invalid when a value smaller than the specific value is indicated.

12. (Currently Amended) A computer-readable storage medium storing a program used to direct a computer for checking an analytic model generated by converting a three-dimensional model for use in an analyzing process to perform:

obtaining a difference between the analytic model and the three-dimensional model; and by:

obtaining a difference in volume between the analytic model and the three-dimensional model;

obtaining a difference in surface area between the analytic model and the three-dimensional model; and

obtaining a difference in barycenter position between the analytic model and the three-dimensional model;

and

displaying the difference.